

Amended Claims (Clean Form)

- 1 - (amended)

A room-temperature liquid stable prepolymer (P) which is the reaction product of

a) methylene diphenylisocyanate or a prepolymer of methylene diphenylisocyanate and an about 500-1000 equivalent weight polytetramethylene ether glycol or polyoxypropylene/polyoxyethylene diol or triol having at least 21% residual NCO,

b) polytetramethylene ether glycol of about 500 to 1000 equivalent weight, and

c) a polyoxypropylene/polyoxyethylene triol or polyoxypropylene triol of about 1300 to 2000 equivalent weight,

the percentage weight/weight in the prepolymer (P) being about 32 to 72% of (a), about 52 to 22% of (b), and about 6 to 15% of (c), and the percentage of residual NCO in the prepolymer (P) being about 6 to 18% by weight,

the prepolymer (P) having a viscosity at room temperature of about 1200 to 26000 cps,

which prepolymer (P) is curable and castable with a suitable curative at room temperature to yield a urethane elastomer.

- 2 - (amended)

The prepolymer(P) of Claim 1 wherein the percentage of residual NCO in the prepolymer(P) is about 11.5-13.5% weight/weight and wherein the prepolymer (P) has a room temperature viscosity of about 3500 to 5000 cps.

- 4 - (amended)

2
The prepolymer (P) of Claim 1 wherein c) is a polyoxypropylene/polyoxyethylene triol having an equivalent weight of about 1300 to 2000 .

- 5 - (amended)

The prepolymer (P) of Claim 1 wherein (a) is a uretonimine-modified methylene diphenylisocyanate.

- 10 - (amended)

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The suitable room temperature liquid essentially of the following components:

(1) a polyoxypropylene/-polyoxyethylene diol of about 1000 to 2000 equivalent weight, (2) a polyoxypropylene/-polyoxyethylene triol of about 1300 to 2000 equivalent weight, (3) a chain extender having an equivalent weight of about 25 to 125, (4) the room-temperature liquid stable prepolymer (P) as defined in Claim 1, (5) a diluent, (6) a degassing aid, and (7) a urethane catalyst, the relative amounts weight/weight being respectively 30 - 90%, 3 - 20%, 5 - 30%, 0 - 30%, 0 - 15%, 0.001 - 0.05%, and 0.01 - 0.5%.

- 13 - (amended)

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The suitable room temperature liquid curative of Claim 1 consisting essentially of the following components:

(1) a polyoxypropylene/-polyoxyethylene diol of about 1000 to 2000 equivalent weight, (2) a polyoxypropylene/-polyoxyethylene triol of about 1300 to 2000 equivalent weight, (3) a chain extender having an equivalent weight of about 25 to 125, (4) the room-temperature liquid stable prepolymer (P) as defined in Claim 1, (5) a diluent, (6) a degassing aid, and (7) a urethane catalyst, the relative amounts weight/weight being respectively 30 - 90%, 3 - 20%, 5 - 30%, 0 - 30%, 0 - 15%, 0.001 - 0.05%, and 0.01 - 0.5% to give a cured urethane elastomer having the following properties after mixing and curing for seven days at room temperature:

Tensile strength (ASTM Method D-412)	about 1300-2700 psi
Elongation (ASTM Method D-412)	about 250-700%
Die C Tear (ASTM Method D-695)	about 140-400 pli
Split Tear (ASTM Method D-1938)	about 20-100 pli
Rebound (ASTM Method D-2632)	about 45-65%
Shore A Hardness (ASTM Method D-2240)	about 70-95
Gel time (25°C)	about 14-40 min..

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- 18 - (amended)

The prepolymer (P) of Claim 2 wherein the percentages weight/weight of a), b), and c) are respectively about 54%, about 36%, and about 10%.



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having an equivalent weight of about 1300 t

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